



EFCM[®] Software

Version 09.00.00 Rev A

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This document describes new features and code enhancements and fixes in EFCM[®] release 09.00.00. Refer to the online Help or the *EFCM Software User Manual Version 9.0* for instructions on using the application.

As issues are discovered and fixed, this document is updated. You can get the latest version of this document from the McDATA[®] website <http://www.mcdata.com>.

1. Click Resource Library and select *Software Release Note* from the Technical Documents area.
2. Select *Software Release Notes*.

NOTE: To improve readability, this document refers to the release number of the application as 9.0 instead of the official release number 09.00.00.

What's New in EFCM Version 9.0

EFCM 9.0 is the latest Storage Network Management software release from McDATA. The EFCM and SANavigator products have been merged together, bringing the best features and support from each into a unified product capable of supporting the most complex SAN environments. Customers of either product with current maintenance agreements are entitled to upgrades to the EFCM 9.0 product.

All enhancements and resolved Problem Reports (PR) in EFCM 9.0 are described under [Code Enhancements & Fixes in EFCM 9.0](#), page 11.

The following new features have been introduced in EFCM 9.0.

Single Storage Network Management Solution

- Integrates core functionalists of EFCM, SANavigator, and SANvergence Manager.
- Allows customers to seamlessly manage all McDATA products from a single application instead of switching back and forth between management stations.
- Shows end-to-end topology view from HBA to storage port.

SAN Routing Support

- Shows routed fabrics in fabric topology.
- Provides holistic view across routed fabrics.
- Shows edge fabrics and devices imported by routers.
- Allows users to configure ports and zoning on routers.

Topology Support for IP Based Extension

- Shows fabric extension and routing with iFCP on topology.
- Provides holistic view of fabrics extended and routed over IP links using iFCP.
- Allows users to seamlessly manage and monitor fabrics over FC and IP links.

mSAN Zoning

- Enables zoning across mSANs in Eclipse SAN Router environments.
- Simplifies and automates zoning across mSANs:
 - Users no longer have to zone each individual fabric and export to the Eclipse SAN Routers.
 - Automates the process with a single click, increasing efficiency and reducing probability of human error.

iSCSI Support

- Supports displaying of iSCSI initiators and targets in the topology when connected to routers. They are displayed in an iSCSI group.
- Manages both FC and iSCSI fabrics. This allows the user to deploy iSCSI fabrics and devices while still maintaining a single fabric management platform.

Open VSAN Support

- Open VSANS, McDATA's implementation of ANSI-standard Virtual Fabric capability, provide the ability to create several virtual switches on an Intrepid 10000 director and assigns physical ports as members of the virtual switches. These virtual switches then participate with other switches, virtual or physical, in a virtual fabric.

Currently, an individual port can be assigned only to a single virtual switch.

- Open vSANs can also be used in conjunction with the Intrepid 10000 director partitions, also called SAN LPARs, to provide flexibility in SAN design and fault isolation.

Up to 8 individual virtual switches can be created per physical Intrepid 10000 director with a maximum of 4 per partition. EFCM 9.0 includes full support for the creation and management of open vSANs.

- Allows users to logically isolate their fibre channel fabrics while maximizing their hardware investment.

Logical isolation of fibre channel devices allows for greater scalability, robustness, and security by isolating user access and limiting fabric activities like RSCNs, fabric builds, and zone set activations to only the devices that need to be affected.

Increased Scalability

Many optimizations have been included in EFCM 9.0, improving performance and allowing for the management of larger environments with thousands of ports.

Manager of Managers (MoM)

Allows an EFCM server to discover other EFCM servers.

Allows for a consolidated *single pane* view across multiple fabrics managed by multiple EFCM server instances. This manager of managers (MoM) server can then be used to view performance across fabrics and perform select management actions such as zoning. This allows enterprise users to maximize efficiency in their daily SAN administration tasks.

Planning

Planning module now included as standard in the base EFCM product.

E/OS Support in EFCM 9.0

RSCN Zone Isolation

Allows enabling and disabling of RSCN zone isolation feature on a McDATA switch.

This prevents RSCN floods by limiting RSCN messages to be sent only to affected devices. Users do not have to access the command line interface (CLI) or the embedded web server (EWS) on the switch to use this feature.

NOTE: Requires E/OSc 9.0 or later or E/OSn 6.3 or later.

ISL Cost Configuration

Allows users to specify whether ISL cost calculations used for FSPF routing selection should account for link costs based on link speeds.

NOTE: Requires E/OSc 9.0 or later or E/OSn 9.1 or later.

Safe Zoning Mode

Prevents merging of fabrics with conflicting zone sets.

Ensures that zone set configurations are created as expected and prevents unintended device connectivity.

NOTE: Requires E/OSn 9.1 or later.

Open Trunking

Supports McDATA's dynamic load balancing feature on the Intrepid 10000 director. Open trunking optimizes data flow across ISLs.

This is a licensable feature per switch.

NOTE: Requires E/OSc 7.0 or above or E/OSn 9.0 or above.

OSMS

- Supports configuration of the open systems management server on the Intrepid 10000 director.
- Allows for in-band management of McDATA FC switches using FC-GS-3 and FC-GS-4 protocols.

NOTE: Requires E/OSn 9.1 or above.

Domain ID Configuration

All McDATA fibre channel products now support user configuration of the domain ID offset. All switches in a fabric must use the same offset. Also, the Intrepid 10000 director supports configurations using any of the 239 domain IDs allowed by the fibre channel protocol.

EFCM 9.0 now transparently adjusts for user configured domain ID offset in the fabric, and also seamlessly handles the additional domain IDs supported by the Intrepid 10000. This provides better flexibility to customers and allows McDATA switches to be replaced by other vendors' switches without modifying the address used for attached devices. This is particularly useful in FICON environments, where the domain ID configuration may impact host programming.

NOTE: Requires E/OS Classic 9.1 or later or E/OSn 9.1 or later.

New Hardware Support in EFCM 9.0

QPM 4G Port Module Support

- Supports 4-port quad port module (QPM) 4G port module on the Intrepid 6140 and 6064 directors.
- Includes support for display in fabric topology, element management, and setting performance thresholds.

LMQ 4G Port Module Support

- Supports new 32-port line module quad (LMQ) 4G Port Module on the i10K Director.
- Enables customers to connect 4G devices directly to the i10K director, or from high-speed 4G ISLs between directors, or 4G capable switches and blade server switches. Higher-speed ISLs allow customers to consolidate ports, freeing up access for additional devices.

QLogic Blade Switch

Provides additional security center support for QLogic blade switch.

Users can additionally manage the security settings on the QLogic blade switch through the security center just like any other McDATA switch. This allows the QLogic blade switch to fully operate in a McDATA mode environment.

Non-McDATA Directors and Switches

Support for select switches from Cisco, Brocade, QLogic, etc. Level of support varies among the switches ranging from basic discovery to full support including zoning.

List of supported switches is published in the *Tested Device List*, available at <http://www.mcddata.com>.

Support for Eclipse1620 and 2640

- Shows routed fabrics in a fabric topology.
- Allows zoning other configuration of McDATA SAN routers.
- Shows edge fabrics and devices imported by routers.
- Allows users to configure ports and zoning on routers

NetApp Filer Support

Supports NetApp filers including iSCSI devices. EFCM 9.0 includes integration hooks with NetApp's data fabric manager (DFM) application. This support includes displaying iSCSI devices connected to NetApp filers.

Allows customers to seamlessly view and monitor their NetApp filer devices from within EFCM. NetApp's DFM can be launched from EFCM to actively manage the filers. Important information such as filer status and statistics and cluster status is readily available through EFCM.

Upgrade/Downgrade Considerations

- EFCM 9.0 does not support switches running E/OSc 6.x and below.
- If you have EFCM 6.X, 7.0, or 7.1, you must upgrade to EFCM 7.2 before you can upgrade to EFCM 9.0.
- If you have SANavigator 3.5, you must upgrade to SANavigator 4.X before you can upgrade to EFCM 9.0.
- You have to first install EFCM 9.0 before upgrading Intrepid 10000 Director from E/OSn 6.x to E/OSn 9.1.
- Upgrading from SANavigator or EFCM to EFCM 9.0 is also supported.

For detailed upgrade instructions, refer to the *EFCM Software Upgrade Instructions* (958-000336), provided in the EFCM 9.0 documentation CD-ROM.

Operating Systems Supported

EFCM 9.0 is supported on the following operating systems.

Server / Client

Operating System	Versions
Windows	<ul style="list-style-type: none">• XP Professional SP2• 2003 Server• 2000 Professional SP4
Solaris	9, 10
Linux	<ul style="list-style-type: none">• Red Hat 9.0, kernel 2.4.20,• Red Hat ES version 3, kernel 2.4.21• Red Hat ES version 4, kernel 2.6.9-5

Product Operating Notes

Compatibility

[Table 1-1](#) describes the firmware EFCM 9.0 supports for McDATA's switches and directors.

Table 1-1 EFCM 9.0 Support Matrix

Operating System	Switch/Director
E/OS 7.x and later	Intrepid 6064 and 6140 Sphereon 3016, 3032, 3216, 3232, 4300, and 4500
E/OS 8.x	Sphereon 4400 and 4700
E/OSi 4.6 and later	Eclipse 1620 and 2640
E/OSn 6.x	Intrepid 10000
E/OS 9.0.	QPM (Quad Port Module) card for McDATA's Intrepid 6140
E/OS 9.1.	QPM (Quad Port Module) card for McDATA's Intrepid 6064 and 6140
E/OSq 5.2.2, 5.2.3 and 5.5.1.	McDATA blade switch

Disabling the SNMP Proxy

SNMP Proxy is enabled by default on all McDATA Blade Switches. To ensure proper functionality of EFCM, the SNMP Proxy feature must be disabled before attempting to discover the McDATA Blade Switch in EFCM.

To disable the SNMP Proxy, perform the following steps:

1. Telnet to the switch.
2. Login to the switch.
3. Type `admin start` and press ENTER.
4. Type `set setup snmp` and press ENTER.
5. Set the *ProxyEnable* setting to False.

6. At Do you want to save and activate the snmp setup? (y/n): [n] type y (yes).

Managing Blade Switch Considerations

If an error message, “received error in attempt to release admin privileges - reason: no response” is received while configuring the secure socket shell (SSH) service for switch blades using Element Manager, you must install the McDATA feature Element Manager.

Do not use the Element Manager fabric binding feature on blade switches. Element Manager fabric binding does not synchronize with EFCM fabric binding. Therefore, if you use both the Element Manager and EFCM fabric binding features you can create a disconnect between the two features.

Examples:

- If you activate an ISL set when a port set is already active, the ISL set takes over and vice-versa (working as designed).
- If you activate switch binding within Element Manager and then activate fabric binding within EFCM, the fabric binding is stored by the blade and appended to the current switch binding security policy (working as designed).

However, after carrying out the above procedure, if you deactivate fabric binding within EFCM it only deactivates on the McDATA legacy switches. To deactivate the policy on the element manager, you must open the element manager and deactivate the policy there.

Note that switch binding is turned off when the learned fabric policy is merged. To turn switch binding back on, you must activate the policy you created within the Element Manager again manually. Failure to perform this task can lead to a security lapse.

- If switch binding is not activated within an Element Manager and fabric binding is activated within EFCM, deactivate fabric binding on the switch using EFCM (working as designed).
- If switch binding is activated through an Element Manager and there is a F-Port logged into the blade that is not in the switch binding membership list (for example, an administrator command has not logged out the unwanted port) fabric binding cannot be activated using EFCM.

Code Enhancements & Fixes in EFCM 9.0

The following table lists code enhancements and fixes for EFCM 9.0. Enhancements and fixes are organized by their Problem Category, then their problem report number (PR Number). Each is assigned a Problem Category, based on the feature to which the issue relates.

Table 1 Code Fixes and Enhancements for EFCM 9.0.

PR Number	Description	Problem Category
39270	Number of clients field reports two clients open when in reality there is only one.	Client/Server
40242	Server may require restart after continuous SNMP query with ethernet adapter hardware failure.	Client/Server
40346	Unable to lock client export port for communication through NAT firewall.	Client/Server
51768	Client is unable to login to a remote server when it needs to cross a Cisco firewall with ACLs enforcing specific port lock down.	Client/Server
73142	EFCM Server requires restart after receiving large numbers of events.	Client/Server
54219	Devices in SANavigator indicate on/offline when performing discovery.	Discovery
61924	Device attached to Brocade switch displays incorrect device type and WWN.	Discovery
62019	Application reports "loss of manageability" for a 4500 with an ISL to a 4GB switch.	Discovery
66044	Unable to discover switch after configuring SNMP community within Element Manager.	Discovery
67810	Unable to discover device with x.x.x.255 IP address.	Discovery
68080	Cisco DS-C9509 with firmware 2.1.(1b) shows no ISL's	Discovery
68682	Call home Dialog still displays status of switches no longer being discovered.	Display Options
57556	Need to add SANvergence configuration instructions to EFCM documentation.	Documentation
66836	Remote management ECCAPI does not support 128 character nicknames.	ECCAPI
71552	Remote application management through EFCM may fail after migrating from a previous version of EFCM	ECCAPI
69441	Element manager port list not updating blocked status.	ED-6140 Product Manager
55291	Date/time is not synchronized between hardware and audit logs on the ED-10000.	EFCM Integration
39302	Element Manager does not persist last view.	Element Manager

Table 1 Code Fixes and Enhancements for EFCM 9.0.

PR Number	Description	Problem Category
39507	Do not require the user to back out when a function requires the switch to be offline. Workaround: New dialog displayed that allows the user to take the device offline.	Element Manager
41724	The Master log should be included in the data collection. Workaround: User has the option to export the master log.	Element Manager
41910	Data Collection does not contain the remote switch WWN in the 'fabric topology' section of the product information log.	Element Manager
63578	Event log displays no new events after large number of events generated.	Event Log
70084	Event log shows backup CTP failure while data collection from the director does not.	Event Log
38721	Exporting data does not display a status indicator.	Export
70609	Zone export is not sorted alphabetically.	Export
76899	Unable to overwrite a saved matrix file in PDCM.	FICON
56791	Documentation not adequate for user rights area.	Help
62171	Performance help does not give enough detailed information.	Help
50009	No warning message on ED-10000 internal loop back failure due to FC cable plugged in.	Intrepid 10000 Element Manager
38261	Large SANs cannot be supported while showing all devices.	Layout/GUI
38719	Wrapping of text in the physical map is difficult to read.	Layout/GUI
53560	ED-10000 ISL connections cycle between on and offline states.	Layout/GUI
61037	Ports on managed switch may not display correct state.	Layout/GUI
49741	Exceed License message displayed after customer loses and regains management capability of switch.	License and Registration
38604	Need a way to export the Master Log.	Logs
41912	An event should be logged to the product status log when a device becomes manageable.	Logs
56595	Fabric log is not contained in a Data Collection.	Logs
65024	Migration failure due to invalid event log file.	Migration
49562	The Port Properties "Attached Port WWN" field should display the nickname.	Nicknames

Table 1 Code Fixes and Enhancements for EFCM 9.0.

PR Number	Description	Problem Category
49582	Cannot right click on embedded switch to apply nickname.	Nicknames
58776	Nickname import is not handled properly for SAN Routers.	Nicknames
42398	Highest performance utilization should always be visible in the topology.	Performance
54975	Inconsistent performance graph display when switching from hour to month and back to hour.	Performance
78151	EFCM may lose management capability when performance option is enabled.	Performance
53920	Event Management settings file lost after server fails or is stopped.	Policy Engine
40221	The type and number of fields displayed in the 'port properties' dialog for a port on a Sphereon are not consistent with other McDATA products.	Properties
60717	The nickname of the principal switch should be added to the fabric properties dialog.	Properties
66261	Default call home login needs to be changed because the user "service" is reserved under Win2k and Win2k3.	SAN Alert/Call Home
41309	SNMP queries have a high time requirement.	SNMP Agent
57691	Views show no connection to some devices.	User-defined Views
57694	Devices which are not part of the fabric are displayed within a view (specifically HBAs within a server).	User-defined Views
58070	HBA Connectivity view shows bridge device that does not belong to the zone.	User-defined Views
60967	Group by settings in the view area may cause ports not to display in the topology.	User-defined Views
68007	HBA to servers dialog lists the field title as "HBA Port Name" but the field contains the node name.	User-defined Views
34683	Activating large zone sets may cause some switch models to indicate offline.	Zoning
49563	Warning message not clear when zone names violate standard character set.	Zoning
58281	Zone member search feature needs improvement.	Zoning
58340	Zoning information can't be displayed when devices are not discovered	Zoning
58384	Activating zone set via remote application will append SMP to zone and zone set.	Zoning

Table 1 Code Fixes and Enhancements for EFCM 9.0.

PR Number	Description	Problem Category
58509	Audit log not capturing zone member additions, removals, or modifications.	Zoning
60723	Compare zone set dialog should be expanded by default.	Zoning
60728	Activate zone set dialog should be expanded by default.	Zoning
68732	EFCM counting duplicate zone members as unique.	Zoning
68894	Unable to add a zone member by its device nickname.	Zoning
70076	ED-5000 zone limits decreased after upgrade.	Zoning
71410	Selecting routed device WWN may add actual or routed device to zone.	Zoning
71965	EFCM indicates zoning Library is corrupted. This workaround is only required for customers with a previously existing zoning issue. Login to EFCM through the EFCM client and delete the corrupt zone from the zoning library. Exit the EFCM Client and restart EFCM Services. Upon restart a single event 41 will be thrown indicating the zoning library is corrupt. Login to EFCM through the EFCM client and delete the corrupt zone from the zoning library. Exit the EFCM Client and restart EFCM Services. Upon restart no event 41's should be thrown.	Zoning
75395	Zoning may not be available for Brocade 12000.	Zoning

Known Issues in EFCM 9.0

The following table lists known issues in EFCM 9.0. The issues are organized by their Problem Category, then their problem report number (PR Number). Each is assigned a Problem Category, based on the feature to which the issue relates.

Table 2 Known Issues in EFCM 9.0

PR Number	Description	Problem Category
46066	Solaris - Application does not respond to a number of shortcut keys or keyboard selections.	508 Compliance
72811	Help: Backup to network is missing information about creating sub-folder. When configuring backup to network using the <i>Options</i> dialog, the path for the backup output directory has to be set in this format: <code>\\Networkname\sharedfolder\subfolder</code> . The user needs to manually create a subfolder under a shared folder. EFCM backup will not recognize the shared folder; only the subfolder.	Backup
79471	Restore may not succeed on ED-10000. Workaround: If the Save and Restore feature is performed exclusively via the CLI interface the operation is successful. CLI provides a few options for performing the save and restore feature. Since EFCM uses partition level operations the current workaround is to use the CLI commands, "system saveConfig partition" and "system restoreConfig partition", to achieve the EFCM equivalent. An FTP server accessible from the I10K partition is required to perform these commands. In the case where a SAN administrator has successfully saved a configuration via EFCM (From the Element Manager, select Maintenance > Backup & Restore Configuration) it is required to use the CLI 'restoreConfig partition' command option to restore that configuration. The file to restore resides in the EFCM server's installation directory and must be placed on an FTP server accessible by the I10K's partition to restore. The file path to restore is \$INSTALL_DIR\Server\Local_Root_Raw\mdsmp.xxxxxx.nn-nn-nn-nn-nn-nn-n.NvramBackup where INSTALL_DIR is folder where EFCM server was installed (default is C:\Program Files\EFCM 9.0), xxxxxx is 010000, nn-nn-nn-nn-nn-nn-nn is the Core Switch WWN (displayed by CLI command 'fc config' performed on the partition to restore) OR You could find the WWN from EM's Product>Properties menu option. After the CLI restoreConfig command is successful, the EFCM will reflect those changes on the next discovery cycle.	Backup/Restore
78311	Clicking on a managed switch blade with firmware version 5.2.3.6.0 may require a client restart.	Client/Server

Table 2 Known Issues in EFCM 9.0

PR Number	Description	Problem Category
38848	QLogic SANboxII may not respond if discovered multiple times using SNMP (2.0 firmware and above).	Discovery
40251	No discovery performed and discovery automatically set to off if there is no localhost name. Workaround: On Linux Machines: if /etc/hosts doesn't have an entry of IP Address for localhost like the following, 172.19.164.24 pictiory localhost, EFCM Does not Discover any devices. To solve this problem add the above line in /etc/hosts file, with your host name and IP Address.	Discovery
60864	ED6064 cannot be discovered after code upgrade to 7.1.2	Discovery
77053	Not able to discover switches using SNMPv3 version with authentication and privacy protocols configured.	Discovery
73441	Displayed node descriptor information inaccurate. Workaround: Node Properties from right click menu has been know to display incorrect information. Restarting the client will display the correct node properties	Display Options
76789	Node Descriptor may not update when devices are moved to a different port.	Display Options
50608	Installing EFCM 8.5 into an existing 8.5 directory may remove existing data. Workaround: When reverting back to a prior EFCM version you must change the installation directory or installation and configuration data from the previous install may be lost.	Documentation
64557	Unable to display SAN router by discovering through a second EFCM copy. SAN Router must be directly discovered to obtain full management capability.	ECCAPI
47742	i10K Element Manager CTP status mismatch between application and CLI.	Element Manager
49634	i10k: EFCM, Slots assigned to partition may not be updated properly in hardware view of Element Manager	Element Manager
50534	Mismatch in class2 statistics, 4-byte word transmitted and 4-byte word received in 64-bit counters.	Element Manager
69857	Received error message "received error in attempt to release admin privileges - reason: no response" when configuring SSH service for switch blades. Workaround: Management of blade switches requires Element Manager PFE (Product Feature Enablement) key. Contact your sales representative to purchase this PFE key.	Element Manager
77390	Performance view: Link utilization % Rx and Tx reporting as 2055 after blocking/unblocking port.	Element Manager
78895	Element Manager may not launch for Blade Server with firmware V5.2.3.8.0	Element Manager
79195	Physical map may not display device listed in Element Manager.	Element Manager

Table 2 Known Issues in EFCM 9.0

PR Number	Description	Problem Category
79505	Port status may not update correctly for the i10K after a port is blocked/unblocked.	Element Manager
78585	Unable to Activate Enterprise Fabric Mode in a fabric containing Switch Blades.	Enterprise Fabric Mode
78485	Element Manager port list view may not update state information after a speed change.	ES-4400 Element Manager
79215	Ports may not come online quickly after a BB credit change.	ES-4400 Element Manager
77428	Saved file modify action does not inherit active matrix port hardware status.	FICON
77494	GCM: Application may require restart when manageability for switch blade is lost during firmware installation.	GCM
79417	After firmware load is finished, dialog indicates only 99% complete.	GCM
77912	Moving a LIM between partitions may fail with no warning message when the LIM is initializing.	I10K Element Manager
79186	i10k Hardware View is not updating when uninstalling an LMQ with an active E_Port attached.	I10K Element Manager
36758	No menu option is available to stop the RDC service.	Install/Uninstall
39338	Application will not start as a service installed directly into the root directory. Workaround: Create a folder for the install.	Install/Uninstall
78017	Partial uninstall of remote client may remove entire application folder.	Install/Uninstall
78424	Application will allow installing over a functional application without requesting an uninstall. Previous install settings may be lost.	Install/Uninstall
76133	Default IPs for newly created I10K partition may not default to users current subnet.	Intrepid 10000 Director
75494	LUN Management module displaying wrong amount of free LUNs.	LUN Masking
52805	Position of devices in fabric view changes after upgrade.	Migration
59475	Code Load on i10k may require client restart.	Migration
66646	Allow/Prohibit Matrix may become altered after migration.	Migration
78807	After migration views may require editing to remove additional properties from the product list display.	Migration

Table 2 Known Issues in EFCM 9.0

PR Number	Description	Problem Category
79296	Client may be slow to respond if running 4 or more clients after migration.	Migration
75921	Performance utilization may be displayed in the topology after data flow has stopped.	Performance
78058	Unable to open port performance graph after doing storage port mapping across fabric and enabling histogram.	Performance
77085	Adding a persisted end device to a new fabric may display an offline connection to the prior fabric.	Persist Fabric
77870	Changing the device type for routed devices may not get reflected in the topology immediately. Workaround: Momentarily switch to a different view.	Persist Fabric
78609	The 'Find product' menu item may not change focus to the online product.	Persist Fabric
79036	NPIV ports shown as storage instead of an HBA	Physical Map
79299	A loop group may displayed for each HBA NL Port.	Physical Map
76664	ISL threshold policy doesn't get activated at the first time.	Port Fencing
79278	Some virtual switches may not display in the port fencing dialog.	Port Fencing
76413	ISL displays prior port after a port swap.	Ports
79418	<p>Remote client may be unable to properly connect to a server managing a switch blade.</p> <p>Workaround: Remove the client devices from the discovery list.</p> <p>Procedure:</p> <p>Open the options dialog from the local client (SAN-->Options)</p> <p>Select IP Configuration from the Software Configuration list.</p> <p>Select Manual from the options in the Server IP Config field.</p> <p>Type the public IP address of the server in the Return Address field. If the server has multiple IP addresses, use the first one from the list.</p> <p>Enter 255.255.255.0 in the Subnet Mask field.</p> <p>Restart the server for the settings to take effect. Setting this option sets the java.rmi.server.hostname to the specified IP address.</p> <p>The above change will not affect the client - server connectivity / the EM connection. However, remote clients discovering client devices will face the same kind of limitations as the clients in 8.x using the java.rmi.server.hostname setting.</p>	Remote Access
63139	Telnet through server is not available for QLogic Switch Blades	Right-Click Menus
68433	Telnet through server is not supported on AIX.	Right-Click Menus

Table 2 Known Issues in EFCM 9.0

PR Number	Description	Problem Category
79116	Unable to change duplicate port router configuration name after entry.	Router Port Config
73372	Routed Fabrics are not getting segmented after changing the domain ID in the Fabric Binding window.	SAN Router
78462	SAN Router: Client may require a restart when performing backup with default settings or when saving to flash.	SAN Router
50585	A device's CHAP secret may be out of sync when user edits an indirectly connected manageable device's CHAP secret using the Edit button.	SANteg II
68683	IP ACL -- Populating an IP range from a Fuji switch to an i10K may not be successful.	SANteg II
79133	Fabrics approaching application limits may require over the minimum system configuration to support all application functions.	Scalability
79177	Unable to change view or hide route after enabling show route from a connectivity view with storage participating in multiple fabrics.	Show Route/Hide Route
64411	EFCM is unable to fully manage blade switches through another EFCM server.	Switch Blade
64413	No SNMP Agent Support for the QLogic Switch Blades.	Switch Blade
66624	PFE Key Authentication field displays X for switch blades the have the SANtegrity feature installed.	Switch Blade
79529	Group data collection may fail to generate properly if a 4300 switch is selected.	User Management
77521	The topology may not immediately display an edited virtual switch name the first time it is set (can take 5-6 minutes).	Virtual Fabrics
78026	Opening element manager of virtual switch may open the element manager of the core switch. Workaround: Discovery may not be complete. Wait and then attempt to open the element manager again.	Virtual Fabrics
67124	Cannot zone a QLogic Bridge (QLA4052c HBA).	Zoning
76285	Default zone status change through EWS is not immediately updated in the EFCM zoning dialog (7-9 minutes).	Zoning
78965	Authentication errors when attempting to perform zoning on a switch with EOSn 6.3.2.	Zoning

Related Documentation

In addition to the EFCM Management online help, the following publications about this product are available on the EFCM CD-ROM (622-000046).

These publications are also available on the McDATA website, www.mcddata.com (Resource Library-->Technical Documents).

NOTE: To improve readability, these document refer to the release number of the application as “X.X” instead of the official release number “0X.0X.00.”

- *EFC Manager Software User Manual* (620-000170)
- *EFC Manager Software Quick Start Guide* (958-000320)
- *EFCM Software Upgrade Instructions* (958-000336)
- *Event Management User Manual* (620-000167)
- *Intrepid 10000 Director Element Manager User Manual* (620-000227)
- *Intrepid 6140 and 6064 Directors Element Manager User Manual* (620-000172)
- *McDATA ED-5000 Director Element Manager User Manual* (620-000176)
- *Performance User Manual* (620-000165)
- *Planning User Manual* (620-000166)
- *SNMP Agent User Manual* (620-000168)
- *Sphereon 3016 and 3216 Fabric Switch Element Manager User Manual* (620-000174)
- *Sphereon 3032 and 3232 Fabric Switch Element Manager User Manual* (620-000173)
- *Sphereon 4400 Switch Element Manager User Manual* (620-000421)
- *Sphereon 4500 Switch Element Manager User Manual* (620-000175)
- *Sphereon 4700 Switch Element Manager User Manual* (620-000242)

- *User Group Management User Manual* (620-000181)
- *View Management User Manual* (620-000182)
- *Zoning User Manual* (620-000169)

Opening the Online Help

1. Start EFCM.
2. Select *Contents* from the *Help* menu or press F1.

Opening the User Guide(s)

The user manuals and other documentation are provided in PDF format and are available on the documentation CD-ROM.

NOTE: You must have Adobe Reader to view the user documentation. You can download a free version of this from <http://www.adobe.com>.

If you run the documentation installer from the documentation CD, you can access the PDF files from where you installed them.

TIP: On Windows systems, if you installed the PDF files in <Install_Home>\docs, you can also access documentation through the Windows *Start* menu. Browse to the application's submenu and select *Documentation*.

Previous Releases

EFCM 8.9.1

The following table lists code enhancements and fixes for EFCM 8.9.1. Enhancements and fixes are organized by their problem category, then their problem report number (PR Number).

PR Number	Description	Problem Category
75349	<p>Topology update problems when the principle switch is not managed and fabric is segmented.</p> <p>The device list adjacent to the topology may display the same switch in two different fabrics or the switch may toggle from one fabric to another, at a rate of approximately half of the discovery rate (approximately eight seconds). The occurrence of this problem is rare and occurs only under the following circumstances:</p> <ol style="list-style-type: none"> 1. The <i>Principle Switch</i> in the fabric, is not being managed and 2. A none redundant ISL connection is lost resulting in a fabric segmentation. <p>Workaround: To recover from this <i>toggling</i> state, it is recommended to restart the software application service and restarting the application. If possible, manage the principle switch by adding it to the discovery list, and/or, add redundant ISL connections between all switches in the fabric.</p>	Display/Layout/GUI
75102	The “Port State” in various areas of the Element Manager, are not updated properly on ED-5000 running 4.X firmware or switches and directors running E/OS 6.X or lower firmware.	Ports
74425 74424 74422 74419	<p>EFCM 8.9. management of McDATA switches and directors running E/OS firmware 6.x or lower, does not display the port state correctly in various parts of the Element Manager.</p> <ol style="list-style-type: none"> 1. Product/Fabric View: Ports that are logged-in intermittently appear and vanish from view. 2. Performance View: Ports with established I/O do not display the green bars or water marks. The performance tables do not update port status after a requested “refresh”. 3. Port Card view identifies all ports as “failed”, with flashing red diamond. All of the ports may be operational. 4. Node List: With devices attached, the node list fails to populate to reflect device attachments. 	Display/Layout/GUI

EFCM 8.9

The following features were introduced or upgraded in EFCM 8.9.

QPM Card for 6140 Director

EFCM 8.9 supports 4G via the QPM (Quad Port Module) card in the McDATA Intrepid 6140 only.

With this feature, McDATA now supports 4G Fibre Channel speeds for directors with storage network management software and hardware.

Support for E/OS 9.0

EFCM 8.9 supports E/OS 9.0. The following features in E/OS 9.0 however, are not supported by EFCM 8.9.

- *Force CLI and EWS password change after configurable time:* There is no dialog in EFCM 8.9 to configure this time.
- *SSH incremental improvements:* There is no dialog in EFCM 8.9 to configure SSH.
- *Login Banner:* There is no dialog in EFCM 8.9 to configure the new login banner.
- *Configurable Domain ID offset:* EFCM 8.9 does not support Domain ID offset. This will be added to EFCM 9.0.
- *HDD (Hot Device Detection) Events (a.k.a. CIDR):* There is no dialog in EFCM 8.9 to configure HDD.
- *Installing Trial PFE keys:* There is no support for Trial PFE keys in EFCM 8.9.
- *Installing Bundled PFE keys:* There is no support for Bundled PFE keys in EFCM 8.9.

EFCM 8.9 includes all fixes and enhancements in previous releases. Within each product area, code fixes and enhancements are organized by their PR (tracking) number.

[Table 1-1](#), page 1-24 contains all fixes in EFCM 8.9.

Table 1-1 Minor Code Fixes and Anointments in EFCM 8.9

PR Number	Description	Problem Category
64508	Product List - Domain ID column not getting sorted properly.	Device List/Properties
39714	Tape Drive not appearing in topology view node tree.	Device List
42272	Discovery Set Up: User is able to define a product with duplicate IP address in the discovery setup dialog.	Discovery
50455	Renaming the SAN Router using Element Manager updates the name in subfabric but not in mFCP.	Discovery
56997	Unable to discover switch when IP is re-used in a switch swap-out scenario.	Discovery
58172	getFcConfiguration() throws efcServerException.	ECCAPI
58235	setInteropMode() throws exception on running Unit Control function for Intrepid 10000 director.	ECCAPI
58365	Threshold function testing failed on an Intrepid 10000 Director because of the SNMP failure exception.	ECCAPI
63986	getSwitchSpeed() returns an invalid value.	ECCAPI
39016	Changing the server time backward causes the link to drop or the closes the Element Manager. When the user attempts to re-open Element Manager, the error message "The link to the product is not available: Connection lost" is displayed.	Element Manager
40795	Preferred Path cannot be enabled intermittently even when the Domain ID is set to Insistent.	Element Manager
42030	Hardware View is blank after a CTP switch over. When doing a CTP switch over from either CTP 0 or 1, the entire hardware view screen goes blank until stopping and starting services.	Element Manager
46470	Need safeguards to preserve active configuration following firmware download on single CTP system. The user is not notified that firmware download on single-CTP system will cause switch to boot the IPL file rather than the current active configuration.	Element Manager
49170	When upgrade firmware install, the red progress bar is not updated.	Element Manager
39448	The default event management rule, generating monthly report, that gets inherited from EFCM 8.0 when you upgrade to EFCM 8.1, has to be removed after upgrade.	Event Management
45910	No log entries generated when a link between switches is disconnected.	Event Management

PR Number	Description	Problem Category
58579	EFCM Event Log missing system power up and standby ready events after system power down.	Element Manager
55780	Export successful message displays without any file name and path.	Export
56669	When enabling/disabling fabric binding on multiple fabrics, the wrong WWN displays in the fabric name field of the fabric binding status window.	Fabric Binding
55977	The firmware installation log report under the History tab is incorrect after upgrading firmware on a switch.	GCM
56294	A long group name over 80 characters makes features unusable; can no longer select switches due to expansion over select buttons.	GCM
60788	Firmware upload displays vague warning message when upgrading EOSc 8.0 to 8.1.	GCM
64147	Firmware Install History - From Firmware and To Firmware columns information is swapped.	GCM
56543	10 Gb/s unaddressable paddle ports are displayed in the port list view when the I10K is online.	I10K Element Manager
57409	Operator and maintenance users are unable to set the management style to FICON.	I10K Element Manager
58033	Partition names defined in the Configure Partition dialog for non-admin partitions are displayed for the admin partition.	I10K Element Manager
58107	Alert Indicators for 10 Gb/s ports appear on the hardware view only after the LIM card is opened and closed.	I10K Element Manager
60009	I10K Element Manager does not recover after removing IP of another partition from discovery list.	I10K Element Manager
57514	EFCM does not take NickName file from default folder and import failed. Browsing and selecting file to import works.	Import
39733	The cursor stays at the "yes" option even though the "No" option has been selected in the copy data and settings menu.	Install
64952	Unix remote client install path does not get appended in the 8.8 folder resulting in erasing non-EFCM files during uninstall.	Install/Uninstall
64987	Client does not automatically launch after installation; user must manually launch the client.	Install/Uninstall
62028	Product List - Op Status column does not update when taking switch blade offline. The alert icon (product list and topology view) does not display when switch blade is taken offline.	Layout/GUI

PR Number	Description	Problem Category
39717	Administrator's password is not migrated from EFCM 7.X to 8.X. Password gets reset to default "password" in EFCM 8.X.	Migration
42249	Call Home information is not migrated from 8.x to 8.6 during upgrade.	Migration
55634	Persisted fabrics are not migrated from EFCM 7.X to 8.7.	Migration
55888	EFCM7.1 to EFCM 8.7 on Solaris: Migration failed with message indicating previous data settings were not migrated when running configuration wizard.	Migration
56631	Discovery is not stable after migration. Discovered devices are frequently getting changed after migrating from EFCM 8.6.	Migration
58141	Email event notification holds unknown@unknown.com in reply address: When migrating data from EFCM 7.x to EFCM 8.7 through EFCM 8.1 in Solaris.	Migration
55982	Nickname size limit is not consistent throughout EFCM application.	Nicknames
56533	No data in exported file when exporting WWN's of discovered devices via Configure Nicknames dialog.	Nicknames
58315	All WWN's are being displayed in the configure nicknames dialog when "All WWNs" option selected from display pull down menu. The configure nicknames dialog is only supposed to show WWPN's of devices that are currently logged into a switch or the WWNN's of switches in fabrics that are being managed / discovered.	Nicknames
62052	Nickname import allowing invalid characters in the WWN field.	Nicknames
39838	Switch label did not show up on the switch performance graph.	Performance
39871	Performance Graphs - Ports showing twice in the performance graph and a "no light" port shows up in the graph.	Performance
41870	Error and Data column: Errors drop down list not available in performance graph of EFCM 8.6.	Performance
44437	Exception is displayed when the performance graph menu item is selected in the right clicking of the switch.	Performance
58512	Partition that is no longer part of the fabric continues to display on the topology after setting a switch offline to segment the fabric.	Physical Map
58513	After I10K reboot, switches from one fabric appear in two fabrics and fabric 'bounces': the fabric displays with 3 switches, then 2, then no ISLs, etc.	Physical Map
42390	Port Fencing: When Remove is clicked after applying threshold in the same session, threshold is still applied.	Port Fencing

PR Number	Description	Problem Category
56496	Threshold limit dialog is not triggered when fencing policy is applied at the switch level.	Port Fencing
56892	Security violations do not display yellow alert icon.	Port Fencing
57339	Switch threshold dialog does not open in session when a policy has been removed from switch level during the same session.	Port Fencing
57487	Removing switch level threshold causes ports to incorrectly inherit policy. The switch inherits the fabric policy. All the subordinate ports also inherit the policy regardless of any directly assigned port policies.	Port Fencing
38742	Nicknames can't be left blank and user has to select cancel if he wants to leave nicknames blank. This is OK except when a user is trying to delete a previously added nickname.	Properties
39656	User defined nicknames for node devices do not show in connection properties.	Properties
39934	Port WWN is listed in the Node WWN field of Properties dialog of a node device. The Properties dialog of a node device lists the Port WWN in the Node WWN field.	Properties
58194	Duplicate fabric names display in the View All Fabric List when SAN Router is attached.	SAN Router
41567	<i>Operation failed</i> error message window pops up after server shutdown.	Shutdown/Exit
55536	EFCM does not discover Qlogic switches unless they are attached to McDATA switches.	Switch Blade
63246	Unable to enable fabric binding for switch blade-only fabric.	Switch Blade
64543	Switch Blade Fabric: Invalid attachment is not shown on McDATA switch port. If there is an invalid attachment between 2 ports, one on a switch blade and one on a McDATA switch, the invalid attachment is not displayed on the McDATA switch port.	Switch Blade
60115	EFCM 8.7 and 8.7.1 as well as EWS are giving port names and labeling them as node names. In EFCM Security tab - EFCM is supplying device port names and labeling them as node names.	User Management
47416	Node connected un-managed switch through I10K didn't show on Domain/Port zoning window. The N_ports didn't show on Domain/Port zoning window.	Zoning
55026	Cannot import a zone set with more than 2048 members.	Zoning
39842	When default zone is not enabled, view based on HBA connectivity does not get created correctly.	Display
45851	All domain IDs in a fabric do not get displayed in product view.	Display

PR Number	Description	Problem Category
58199	setDefaultZoneEnabled() throws UnitUnavailableException when running GetModeSetMode_test method of unit control function.	ECCAPI
57855	EFCM Group Manager data collections not being saved.	EFC Server Manager
56470	No CTA event is logged in Threshold Alert log.	Element Manager
57083	FC Address field in Node List View cannot be sorted on all 3 bytes of the port Address. EFCM sorts on the Domain/Area fields of the Port Address only, not on the Port field.	Element Manager
57492	Clean install EFCM will prevent the discovery of the switch if API and ACP features are enabled on the managed switch.	Element Manager
57569	When an Element Manager launch is attempted after IP address is swapped between 4500 and 4700, an error message Invalid Product Type is displayed for 4700.	Element Manager
58446	Users can enable the insistent domain ID feature when the preferred domain ID and current domain ID do not match.	Element Manager
58448	Users can enable the preferred path feature when the active domain ID and the preferred domain ID do not match.	Element Manager
58840	EFCM not displaying performance correctly from 6140's and I10K's intermittently.	Element Manager
60360	EFCM intermittently reports incorrect port addresses in EFCM Node List for NPIV devices on ES-4700 switch.	Element Manager
64565	Switch Blades & SANtegrity: Cannot activate Enterprise Fabric Mode on a switch blade-only fabric or mixed-fabric in Open Systems mode.	Enterprise Fabric Mode
64569	Switch Blade & Enterprise Fabric Mode: When attempting to deactivate Switch Binding with Enterprise Fabric Mode enabled, no message displays. A message should display stating that switch binding cannot be deactivated while Enterprise Fabric Mode is enabled.	Enterprise Fabric Mode
64571	Switch Blades & Enterprise Fabric Mode: switch binding is deactivated when Enterprise Fabric Mode is deactivated for switch blades.	Enterprise Fabric Mode
39877	When ethernet cable is disconnected, ethernet event not sent for switch in a discovered fabric.	Ethernet Event
38636	No SNMP traps are being displayed in the event log when sent across through a firewall.	Event Log
42014	Exception occurs when export- to-disk operation is performed on a remote client on AIX platform.	Export

PR Number	Description	Problem Category
60776	EFCM 8.7 Fabric Log falsely reports ISLs added and removed.	Fabric Persistence
60640	Attempting to upgrade firmware from 8.0 to 8.1 via Group Configuration Manager results in a erroneous message "Firmware Not Applicable" error message.	GCM
58027	Defining a community name in SNMP dialog with no trap recipient results in the community name not being displayed in EFCM.	I10K Element Manager
58646	Hardware View is not consistent when showing port failures - partition 0 doesn't display failures, partition 1 does display failures. Partition 1 shows partition 0's port failures while partition 0 doesn't display partition 1's failures.	I10K Element Manager
59302	Firmware load failure to director due to intermittent timeout.	Install/Uninstall
64519	Incorrect firmware version displayed in fabric tree after downgrade to E/OSc 7.1.3.	Install/Uninstall
58089	Connectrix manager application logs are not being updated until logs are opened first.	Logs
40079	McDATA ES1000 appears as migrated but is not actually migrated.	Migration
42250	Upgrade from EFCM 8.0 to EFCM 8.6 does not migrate user created views.	Migration
57909	EFCM 8.6 to 8.7: Performance graph information not migrated from EFCM 8.6 (Solaris).	Migration
39635	FL Ports do not show a destination icon and port in performance graphs.	Performance
39830	High / Low critical indicators are not set correctly when open Port Performance graph from McDATA principal switch.	Performance
40035	Persist fabric does not work properly if connection is lost to a non-McDATA principal switch. Persist fabric always keys off the principal switch. Non-McDATA switches do not display in EFCM. When a non-McDATA switch is the principal switch and the fabric is persisted, incorrect persist fabric updates will occur if connection is lost to the principal switch.	Persisted Fabric
54223	Fenced port reports as disabled after clearing problem and port placed back online.	Port Fencing
57403	The user must unblock, block then unblock again to recover a port after a fencing policy has been invoked.	Port Fencing
56918	Cannot perform port zoning of N_ports attached to the McDATA Qlogic blade switch module in the server from EFCM.	Ports
63132	Not able to enable a show route between the end devices attached to a switch blades.	Show Route/Hide Route

PR Number	Description	Problem Category
59274	URL is incorrect in FA MIB.	SNMP Agent
59533	FA-MIB reports incorrect PortState in certain cases for ED-1032.	SNMP Agent
47853	Timeout during firmware upgrade.	Upgrade
56418	Cannot open Zoning element on EFCM.	Zoning